

# Converting Colors

XYZ(33.1118, 16.4550, 29.3248)

Have a look what the booklet for  
XYZ(33.1118, 16.4550, 29.3248)  
contains.

<b>XYZ(33.0769, 16.4343, 29.4458)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(33.0769, 16.4343,  
29.4458)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	D60094
RGB	214, 0, 148
RGB Percent	84%, 0%, 58%
CMY	0.1608, 0.9998, 0.4196
CMYK	0.00, 1.00, 0.31, 0.16
HSL	319°, 100%, 42%
HSV	319°, 100%, 84%
XYZ	33.0769, 16.4343, 29.4458
YIQ	80.8580, 80.0360, 91.3960

# Conversions

## Conversions Part 2

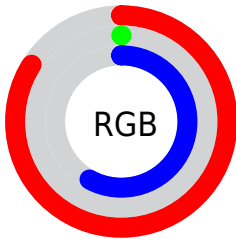
<b>Format</b>	<b>Color</b>
<b>RYB</b>	214, 0, 148
Decimal	14024852
CIELab	47.54, 77.82, -19.79
CIElCh	48, 80.294, 345.735
Yxy	16.4343, 0.4189, 0.2081
Android (android.graphics.Color)	4292214932 (0xFFD60094)
YUV	80.8580, 33.1010, 116.7655
Hunter-Lab	40.5392, 74.6986, -14.6880

# Details

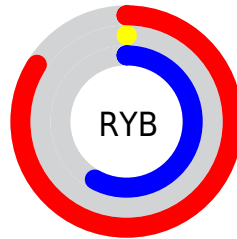
The XYZ color **33.0769, 16.4343, 29.4458** is a dark color, and the websafe version is hex **CC0099**. The color can be described as dark washed rose. A complement of this color would be **25.0317, 48.4874, 13.2003**, and the grayscale version is **7.7234, 8.1257, 8.8489**.

A 20% lighter version of the original color is **55.7278, 33.1786, 59.3440**, and **15.4841, 7.7331, 11.9858** is the 20% darker color. If you saturate the color by 10%, you get **33.0760, 16.4339, 29.4406**, and if you desaturate by 10%, it is **33.8910, 17.2021, 32.3693**.

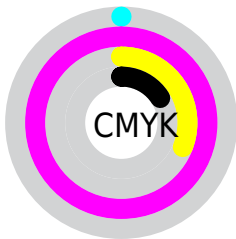
# Distribution



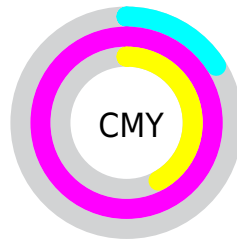
- Red (84%)
- Green (0%)
- Blue (58%)



- Red (84%)
- Yellow (0%)
- Blue (58%)



- Cyan (0%)
- Magenta (100%)
- Yellow (31%)
- Black (16%)




- Cyan (16%)
- Magenta (100%)
- Yellow (42%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 33.0769, 16.4343, 29.4458 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.

Similar to the brightness gradients but the following saturation gradients show a change of the XYZ color 33.0769, 16.4343, 29.4458 by changing the saturation by 10% instead.




 33.0769, 16.4343,  
29.4458


 33.0769, 16.4343,  
29.4458


307.6550,  
231.8910, 313.4391


 22.3449, 9.8320,  
19.1698


 63.8494, 37.3505,  
59.8352


 14.2286, 5.2877,  
11.6150


 84.6207, 52.4333,  
80.7858


 8.3626, 2.4170,  
6.3628


 109.4690, 71.1116,  
106.1317

 4.3816, 0.8346,  
2.9946

 138.7599, 93.7699,  
136.2913

 1.9202, 0.0000,  
1.0919

 172.8585,  
120.7926, 171.6834

 0.5885, 0.0000,  
0.0000

 212.1303,

 0.0000, 0.0000,

152.5641, 212.7263

0.0000

256.9407,  
189.4687, 259.8387

■ 33.0769, 16.4343,  
29.4458

■ 33.0769, 16.4343,  
29.4458

■ 33.0760, 16.4339,  
29.4406

■ 33.8910, 17.2021,  
32.3693

■ 35.0407, 18.5928,  
35.5540

■ 36.6283, 20.8101,  
39.0364

■ 38.7104, 23.9665,  
42.8377

■ 41.3348, 28.1567,  
46.9759

■ 44.5434, 33.4639,  
51.4672

■ 48.3738, 39.9628,  
56.3262

■ 52.8605, 47.7215,  
61.5666

■ 58.0354, 56.8030,  
67.2010

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



27.6689, 16.4343, 61.8023



33.0769, 16.4343, 29.4458



32.9267, 16.4343, 9.2043

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



33.0769, 16.4343, 29.4458



12.1829, 16.4343, 0.3271



7.8595, 16.4343, 63.4475

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



33.0769, 16.4343, 29.4458



25.0317, 48.4874, 13.2003

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



5.7772, 16.4343, 30.8258



33.0769, 16.4343, 29.4458



7.7029, 16.4343, 2.0849

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



33.0769, 16.4343, 29.4458



19.2561, 16.4343, 0.2898



5.7303, 16.4343, 9.8445



12.4737, 16.4343, 89.5288



# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



33.0769, 16.4343, 29.4458



29.6368, 16.4343, 3.3477



5.7303, 16.4343, 9.8445



6.9117, 16.4343, 52.1142

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



33.0774, 16.4352, 29.4461



71.7407, 59.0924, 83.5242



14.2674, 5.9536, 64.0157



14.8142, 11.7249, 17.2060



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



33.0774, 16.4352, 29.4461



49.1102, 24.4081, 43.3738



28.1651, 14.4703, 3.5781



12.7823, 12.5644, 14.7940



20.0407, 9.9526, 18.0504



1.2451, 0.6148, 1.2799



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



33.0774, 16.4352, 29.4461



49.1102, 24.4081, 43.3738



31.4177, 51.0418, 46.8285



12.7823, 12.5644, 14.7940



20.0407, 9.9526, 18.0504



1.2451, 0.6148, 1.2799



# Previews

## White Background



This preview shows how the XYZ color 33.0769, 16.4343, 29.4458 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail



# Black Background



## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

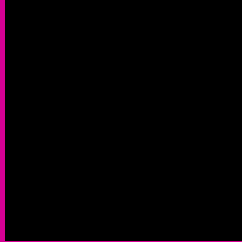
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 33.0769, 16.4343, 29.4458**

## **Background**



This preview shows how black text looks on a background with the XYZ color 33.0769, 16.4343, 29.4458.



This preview shows how white text looks on a background with the XYZ color 33.0769, 16.4343,



# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

33.0769, 16.4343, 29.4458

### Protanopia

19.6664, 17.3815, 63.9464

### Deuteranopia

17.3210, 17.0007, 26.4133



## Tritanopia

28.3678, 16.7729, 6.1572

# Trichromacy



## Original Color

33.0769, 16.4343, 29.4458



## Protanomaly

18.9381, 12.0593, 48.9065



## Deuteranomaly

19.7134, 12.9435, 27.0505



## Tritanomaly

29.2157, 15.8151, 11.8687

# Monochromacy



## Original Color

33.0769, 16.4343, 29.4458



## Achromatopsia

7.8210, 8.2283, 8.9606



## Achromatomaly

12.8311, 8.1430, 14.2601

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 33.0769, 16.4343, 29.4458 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(214, 0, 148)` looks like.

```
.text, #text, p{  
    color:rgb(214, 0, 148)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(214, 0, 148) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(214, 0, 148) }
```

## Border

The CSS property to change the border of an element to XYZ 33.0769, 16.4343, 29.4458 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(214, 0, 148) }
```



If only the border color should be changed use the property border-color.

```
.border{ border-color:rgb(214, 0, 148) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel rgb(214, 0, 148) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(214, 0, 148); -webkit-box-  
shadow:4px 4px 4px 4px rgb(214, 0, 148);  
box-shadow:4px 4px 4px 4px rgb(214, 0,  
148) }
```

# Background

The CSS property to change the background color of an element to XYZ 33.0769, 16.4343, 29.4458 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(214, 0, 148) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(214, 0,  
148) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor